

| L Number | Hits | Search Text | DB | Time stamp |
|---------------------|-------------|--|---|---------------------|
| - | 856 | dong near kim | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 13:14 |
| - | 4 | (dong near kim) near june | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/31 08:37 |
| - | 8194 | suction near head | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/31 09:42 |
| - | 1279126 | semiconductor or (printed near circuit near board) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/31 08:39 |
| - | 544 | (suction near head) and (semiconductor or (printed near circuit near board)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/31 08:39 |
| - | 12558 | mounting near head | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/31 09:43 |
| - | 1843 | (mounting near head) and (suction vacuum) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/31 09:43 |
| - | 925 | ((mounting near head) and (suction vacuum)) and motor | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/31 09:45 |
| - | 1232 | ball near spline | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/31 09:45 |
| - | 24 | (mounting near head) and (ball near spline) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2002/10/31 09:45 |

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| - | 1322 | dong near kim | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 11:35 |
| - | 17 | dong near kim near june | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 11:43 |
| - | 1525 | ball near (spline splined) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 12:54 |
| - | 146022 | motor and ((rotatable rotating rotat\$) near shaft) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 11:44 |
| - | 327 | (ball near (spline splined)) and (motor and ((rotatable rotating rotat\$) near shaft)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 12:54 |
| - | 85 | ((ball near (spline splined)) and (motor and ((rotatable rotating rotat\$) near shaft))) and (vacuum suction) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 12:54 |
| - | 0 | 20010001167.URPN. | USPAT | 2004/05/27 11:48 |
| - | 6 | ("4451976" "4498023" "5070598" "5397423" "5588195" "5850683").PN. | USPAT | 2004/05/27 11:58 |
| - | 2 | 552921.URPN. | USPAT | 2004/05/27 12:05 |
| - | 2 | 552921.URPN. | USPAT | 2004/05/27 12:05 |
| - | 47 | ((ball near (spline splined)) and (motor and ((rotatable rotating rotat\$) near shaft))) and (vacuum suction)) and coupling | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 12:55 |
| - | 577 | bearing near (spline splined) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 12:54 |
| - | 172 | (bearing near (spline splined)) and (motor and ((rotatable rotating rotat\$) near shaft)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 12:54 |

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| - | 74 | ((bearing near (spline splined)) and (motor and ((rotatable rotating rotat\$) near shaft))) and (vacuum suction) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 12:55 |
| - | 35 | ((bearing near (spline splined)) and (motor and ((rotatable rotating rotat\$) near shaft))) and (vacuum suction)) and coupling | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 12:55 |
| - | 35 | ((bearing near (spline splined)) and (motor and ((rotatable rotating rotat\$) near shaft))) and (vacuum suction)) and couplings | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 12:55 |
| - | 9253 | suction near head | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 13:15 |
| - | 1834 | (spline spilned) near (bearing ball) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 13:15 |
| - | 20 | (suction near head) and ((spline spilned) near (bearing ball)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 06:09 |
| - | 15 | ((suction near head) and ((spline spilned) near (bearing ball))) and coupling | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 13:16 |
| - | 15 | ((suction near head) and ((spline spilned) near (bearing ball))) and coupling) and (servomotor motor) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 13:36 |
| - | 10 | ("4515507" "4527327" "4611397" "4850780" "4858308" "4860438" "4950011" "5033783" "5195235" "5657533").PN. | USPAT | 2004/05/27 13:25 |
| - | 12 | 5758410.URPN. | USPAT | 2004/05/27 13:26 |
| - | 817 | (29/743).CCLS. | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 13:37 |

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| - | 7 | ("3921971" "4703965" "4705311" "4729713" "4860438" "4950011" "5755471").PN. | USPAT | 2004/05/27 13:39 |
| - | 13 | 4703965.URPN. | USPAT | 2004/05/27 13:41 |
| - | 11968 | 29/\$.ccls. and (coupling coupler) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 14:05 |
| - | 11609 | 29/\$.ccls. and (coupling) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 14:05 |
| - | 71 | (suction near head) and (29/\$.ccls. and (coupling coupler)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/05/27 14:05 |
| - | 1837 | ((spline spilned) near (bearing ball)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 06:10 |
| - | 1266 | ((((spline spilned) near (bearing ball))) and (rotary rotation rotatable) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 06:21 |
| - | 403 | (((((spline spilned) near (bearing ball)))) and (rotary rotation rotatable)) and (coupler coupling) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 06:10 |
| - | 403 | (((((spline spilned) near (bearing ball)))) and (rotary rotation rotatable)) and (couplers couplings) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 06:22 |
| - | 10 | (((((spline spilned) near (bearing ball)))) and (rotary rotation rotatable)) and (two near (couplers couplings)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 06:11 |
| - | 1016 | ((((spline spilned) near (bearing ball))) and motor | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 06:21 |

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| - | 312 | (((spline splined) near (bearing ball))) and motor) and (couplers couplings) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 06:22 |
| - | 237 | (((spline splined) near (bearing ball))) and motor) and (couplers couplings)) and (center central) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 08:11 |
| - | 0 | 6012222.pn. and (spline near (shaft)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 07:59 |
| - | 0 | 6012222.pn. and (spline near (nut)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 07:59 |
| - | 0 | 6012222.pn. and (splined near (nut)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 07:59 |
| - | 0 | 6012222.pn. and (splined near (nut)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 07:59 |
| - | 88 | (((spline splined) near (bearing ball))) and motor) and (couplers couplings)) and (center central)) and (spline near (shaft)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 08:15 |
| - | 22 | (((spline splined) near (bearing ball))) and motor) and (couplers couplings)) and (center central)) and (spline near (shaft))) and (spline near nut) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 08:15 |
| - | 14453 | mounting near head | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 08:15 |
| - | 59 | (mounting near head) and (spline near (shaft)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 08:18 |

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| - | 2 | ((mounting near head) and (spline near (shaft))) and (spline near nut) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 08:18 |
| - | 135 | (((((spline spilned) near (bearing ball))) and (rotary rotation rotatable)) and (coupler coupling)) and (spline near (shaft)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 08:21 |
| - | 28 | (((((spline spilned) near (bearing ball))) and (rotary rotation rotatable)) and (coupler coupling)) and (spline near (shaft))) and (spline near nut) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 08:21 |
| - | 286 | (((((spline spilned) near (bearing ball))) and motor) and (spline near (shaft))) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 08:23 |
| - | 61 | (((((spline spilned) near (bearing ball))) and motor) and (spline near (shaft))) and (spline near nut) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 08:21 |
| - | 107 | (((((spline spilned) near (bearing ball))) and motor) and (couplers couplings)) and (spline near (shaft)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 08:23 |
| - | 107 | (((((spline spilned) near (bearing ball))) and motor) and (couplers couplings)) and (spline near (shaft))) and (spline near (shaft)) | USPAT; US-PGPUB; EPO; JPO; DERWENT; IBM_TDB | 2004/06/01 08:24 |